

WHAT IS CLAIMED IS:

1. A circular sawing machine, comprising:

a base;

a saw seat movable relative to the base; and

a link mechanism pivotally mounted between the base and the saw seat, so that the saw seat is linearly movable relative to the base.

2. The circular sawing machine in accordance with claim 1, wherein

the link mechanism includes a positioning seat secured on the base, two

symmetrically opposite first links each having a first end mounted on the

positioning seat, two symmetrically opposite second links each having a first

end pivotally mounted on a second end of a respective one of the two first links,

and two symmetrically opposite third links each having a first end pivotally

mounted on a second end of a respective one of the two second links and a

second end pivotally mounted on a connecting seat which is mounted on the

saw seat.

3. The circular sawing machine in accordance with claim 2, wherein

the base has a side provided with a support seat, and the positioning seat of the

link mechanism is secured on the support seat of the base by a locking pin.

4. The circular sawing machine in accordance with claim 1, wherein

the link mechanism has a symmetrical structure, so that the saw seat can be

moved linearly relative to the base by linear movement of the link mechanism.

1 5. The circular sawing machine in accordance with claim 2, wherein
2 the two first links are arranged in a substantially V-shaped manner.

3 6. The circular sawing machine in accordance with claim 2, wherein
4 the two second links are arranged in a substantially V-shaped manner.

5 7. The circular sawing machine in accordance with claim 2, wherein
6 the two third links are arranged in a substantially V-shaped manner.

7 8. The circular sawing machine in accordance with claim 2, wherein
8 the connecting seat is substantially V-shaped.

9 9. The circular sawing machine in accordance with claim 2, wherein
10 the connecting seat has two sides each pivotally connected with the second end
11 of the respective third link by a pivot shaft.

12 10. The circular sawing machine in accordance with claim 2, wherein
13 the second end of each of the two third links is provided with a catch block that
14 can be rested on the connecting seat when each of the two third links is
15 extended outward relative to the respective second link to the outermost
16 position, so as to limit the outermost stroke of each of the two third links.

17 11. The circular sawing machine in accordance with claim 2, wherein
18 the first end of each of the two second links is provided with a catch block that
19 can be rested on the respective third link when each of the two third links is
20 retracted inward relative to the respective second link to the innermost position,
21 so as to limit the innermost stroke of each of the two third links.

- 1 12. The circular sawing machine in accordance with claim 1, wherein
- 2 the saw seat is provided with a circular saw blade.